

GRANA

Vol. 19. 1980

An international journal of **PALYNOLOGY** and **AEROBIOLOGY**

with

World Pollen and Spore Flora

Editors

Sorsa, Finland and S. Nilsson, Sweden

Editorial Board

Th. Andersen, Denmark, A. Dunbar, Sweden, I. Engström, Sweden, K. Fægri, Norway,
Hafsten, Norway, L. Holm, Sweden, G. Kjellström, Sweden, K. Larsen, Denmark,
Manum, Norway, J. Praglowski, Sweden, J. Rowley, Sweden, Y. Vasari, Finland

Almqvist & Wiksell Periodical Company, Stockholm, Sweden

Contents

No. 1

Editorial	1
<i>Masamichi Takahashi</i>	
On the development of the reticulate structure of <i>Hemerocallis</i> pollen (Liliaceae)	3
<i>James D. Ackerman and Norris H. Williams</i>	
Pollen morphology of the tribe Neottieae and its impact on the classification of the Orchidaceae	7
<i>C. M. Rogers</i>	
Pollen dimorphism in distylous species of <i>Linum</i> sect. <i>Linastrum</i> (Linaceae)	19
<i>Annie S. N. Liem</i>	
Effects of light and temperature on anthesis of <i>Holcus lanatus</i> , <i>Festuca rubra</i> and <i>Poa annua</i>	21
<i>Jean-Pierre Ybert</i>	
Le contenu pollinique de l'atmosphère en Côte d'Ivoire et au Tchad	31
<i>Svend Th. Andersen</i>	
Influence of climatic variation on pollen season severity in wind-pollinated trees and herbs	47
<i>Maurice S. McDonald</i>	
Correlation of air-borne grass pollen levels with meteorological data	53
<i>Meredith Hoag Lieux</i>	
Acetolysis applied to microscopical honey analysis	57
<i>A. B. Singh and R. Babu</i>	
Grass pollen content of the atmosphere in Delhi area	63
<i>Jens Morten Hansen</i>	
Morphological characterization of encrusting, palynomorph green algae from the Cretaceous-Tertiary of central West Greenland and Denmark	67

No. 2

<i>Alan Graham, Gary Barker and Marlene Freitas de Silva</i>	
Unique pollen types in the Caesalpinioideae (Leguminosae)	79
<i>Léontine Dan Dicko-Zafimahova</i>	
Etude ontogénique de la pollinie de <i>Calotropis procera</i> (Asclepiadaceae). Apport de la microscopie photonique	85
<i>Marie-Thérèse Cousin</i>	
Changes induced by mycoplasma-like organisms (M.L.O.), etiologic agents of the Stollbur disease in the different tissues of the anther of <i>Vinca rosea</i> L. (Apocynaceae)	99
<i>Vera Markgraf</i>	
Pollen dispersal in a mountain area	127
<i>Su-hwa Chen and Tseng-chieng Huang</i>	
Aeropalynological study of Taipei Basin, Taiwan	147
<i>Herbert Straka</i>	
Sculpture-structure in the sense of Potonié	157

No. 3

<i>Santha Devi</i>	
The concept of perispore—an assessment	159
<i>M. R. Vijayaraghavan and Avdesh K. Shukla</i>	
Viscin threads in <i>Zeuxine strateumatica</i> (Orchidaceae)	173
<i>Peter K. Endress and Rosemarie Honegger</i>	
The pollen of the Austrobaileyaceae and its phylogenetic significance	177
<i>K. S. Xavier, R. A. Mildner and C. M. Rogers</i>	
Pollen morphology of <i>Linum</i> sect. <i>Linastrum</i>	183
<i>Bertel Hansen</i>	
Pollen dimorphism in <i>Lophophytum mirabile</i> Schott & Endl. (Balanophoraceae)	189

<i>E. Pacini, F. Ciampolini and M. Cresti</i>	
A technique for observing the same anther or pollen grain both by TEM and SEM	193
<i>M. Olániyi Odébòdé and Annie Skarby</i>	
Ariadnaesporites (Salviniaceae) from the Cretaceous of Nigeria	197
<i>Rex Harland, Philip C. Reid, Patricia Dobell and Geoffrey Norris</i>	
Recent and sub-Recent dinoflagellate cysts from the Beaufort Sea, Canadian Arctic	211
<i>Paolo Mandrioli, Maria Grazia Negrini, Claudia Scarani, Francesco Tempieri and Fernanda Trombetti</i>	
Mesoscale transport of <i>Corylus</i> pollen grains in winter atmosphere	227
Index	235